

18 GAUGE STAPLER KIT MODEL H2909 INSTRUCTION MANUAL



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1821 VALENCIA ST., BELLINGHAM, WA 98227
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SAFETY

AWARNING

For Your Own Safety Read Instruction Manual Before Operating This Equipment

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words which are intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures.

ADANGER

Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

AWARNING

Indicates a potentially hazardous situation which, if not avoided, <u>COULD</u> result in death or serious injury.

ACAUTION

Indicates a potentially hazardous situation which, if not avoided, <u>MAY</u> result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE

This symbol is used to alert the user to useful information about proper operation of the equipment.

AWARNINGSafety Instructions For Power Tools

- KEEP ALL SAFETY DEVICES IN PLACE and in working order.
- REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before operation.
- KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
- DO NOT USE IN DANGEROUS ENVIRONMENT. Do not use power tools in damp or wet locations, or where any flammable or noxious fumes may exist. Keep work area well lighted.

- 5. KEEP CHILDREN AND VISITORS AWAY. All children and visitors should be kept a safe distance from work area.
- MAKE WORKSHOP CHILD PROOF with padlocks, master switches, or by removing starter keys.
- DO NOT FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
- USE THE RIGHT TOOL. Do not force tool or attachment to do a job for which it was not designed.
- 9. DO NOT USE UNDER THE INFLU-ENCE OF DRUGS OR ALCOHOL.

AWARNING

Safety Instructions For Power Tools

10. USE PROPER EXTENSION CORD for the tool. Make sure your extension cord is in good condition. Conductor size should be in accordance with the chart below. The amperage rating should be listed on the motor or tool nameplate. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Your extension cord must also contain a ground wire and plug pin. Always repair or replace extension cords if they become damaged.

Minimum Gauge for Extension Cords

AMP	LENGTH		
RATING	25ft	50ft	100ft
0-6	18	16	16
7-10	18	16	14
11-12	16	16	14
13-16	14	12	12
17-20	12	12	10
21-30	10	10	No

- 11. WEAR PROPER APPAREL. Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
- 12. ALWAYS USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
- 13. SECURE WORK. Use clamps or a vise to hold work when practical. It is safer than using your hand and frees both hands to operate tool.
- **14. DO NOT OVERREACH.** Keep proper footing and balance at all times.

- 15. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- **16. DISCONNECT TOOLS** before servicing and changing accessories.
- 17. REDUCE THE RISK OF UNINTEN-TIONAL STARTING. Make sure switch is in off position before plugging in.
- 18. USE THE RECOMMENDED

 ACCESSORIES. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury.
- 19. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
- 20. NEVER LEAVE TOOL RUNNING UNATTENDED. Turn the power off, and do not leave tool until it comes to a complete stop.
- 21. NEVER ALLOW UNTRAINED USERS TO RUN THIS TOOL WHILE UNSUPERVISED.
- 22. IF YOU ARE UNSURE OF THE INTENDED OPERATION, STOP USING THE TOOL. Seek formal training or research books or magazines that specialize in power tools.

AWARNING

Basic Stapler Safety

In addition to the rules stated in the previous section, and those in the warning boxes throughout this manual, please observe the following safety tips for your new stapler:

- READ THIS ENTIRE MANUAL BEFORE OPERATING THE STA-PLER.
- ALWAYS DISCONNECT AIR FROM THE STAPLER whenever servicing or installing staples. During maintenance, a stapler connected to air may fire accidentally, causing serious personal injury.
- DO NOT PLACE HANDS NEAR STAPLE POINT OF ENTRY. Staple can deflect and tear through the surface of the workpiece, puncturing your hand or fingers.
- NEVER CONNECT THE STAPLER TO PRESSURIZED OXYGEN OR OTHER COMBUSTIBLE GASES as a power source. Only use filtered, lubricated, and regulated compressed air.
- NEVER USE GASOLINE OR OTHER FLAMMABLE LIQUIDS TO CLEAN THE STAPLER. Vapors in the tool will ignite by a spark and cause the tool to explode.
- DO NOT CARRY THE STAPLER BY ANY OTHER PART THAN THE HANDLE, and do not carry the stapler by the air hose.
- DO NOT KEEP THE TRIGGER PULLED ON THE SAFETY YOKE MECHANISM WHEN CARRYING OR HOLDING THE TOOL.
- DO NOT USE A CHECK VALVE OR ANY OTHER FITTING that allows air to remain in the tool.



Operating this stapler can propel objects into the air, causing immediate eye damage. To protect yourself, always wear American National Standards Institute (ANSI) approved safety glasses or goggles when operating this equipment. In addition, this stapler discharges at 85-90 decibels. To protect your hearing, always wear ANSI approved ear protection when operating this stapler.



Never point this stapler at yourself or another person! Always pay attention to the direction this stapler is pointed. Use this tool with respect and caution to lessen the possibility of operator or bystander injury. Ignoring this warning may result in serious personal injury.

INTRODUCTION

Commentary

We are proud to offer the Grizzly Model H2909 18 Gauge Stapler. This model is part of a growing Grizzly family of fine power tools. When used according to the guidelines set forth in this manual, you can expect years of trouble-free, enjoyable operation and proof of Grizzly's commitment to customer satisfaction.

This stapler features 360° adjustable exhaust, a convenient bottom-loading magazine, a safety trigger and a durable plastic carrying case.

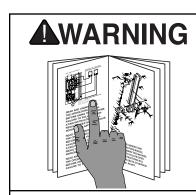
We are pleased to provide this manual with the Model H2909. It was written to encourage safety considerations and guide you through general operating procedures and maintenance. This manual represents our effort to produce the best documentation possible.

The specifications, details, and photographs in this manual represent the Model H2909 as supplied when the manual was prepared. However, owing to Grizzly's policy of continuous improvement, changes may be made at any time with no obligation on the part of Grizzly. If you have any comments regarding this manual, please write to us at the address below:

Grizzly Industrial, Inc. c/o Technical Documentation P.O. Box 2069 Bellingham, WA 98227-2069 Most importantly, we stand behind our tools. If you have any service questions or parts requests, please call or write us at the location listed below.

Grizzly Industrial, Inc. 1203 Lycoming Mall Circle Muncy, PA 17756 Phone: (570) 546-9663

Fax: (800) 438-5901 E-Mail: techsupport@grizzly.com Web Site: http://www.grizzly.com



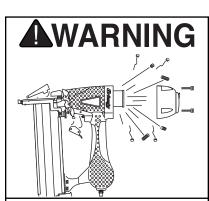
Read the manual before assembly and operation. Become familiar with this tool, its safety instructions, and its operation before beginning any work. Serious personal injury may result if safety or operational information is not understood or followed.

Compressed Air System

The Model H2909 is designed to be operated at 60-100 psi. Do not exceed the maximum operating pressure for your model.

Before you use your new stapler, install the %" quick connect fitting that comes with the stapler. Install a female %" fitting on the air hose. Regulate the air pressure on your air compressor to barely over the minimum psi for your model.

Many pneumatic tools benefit from an inline filter/lubricator/regulator unit. This attachment is connected by hoses between the air compressor and the stapler. Using this unit protects your tool from damaging water build-up, allows you to adjust and maintain constant air pressure to your tool, and saves you the inconvenience of having to manually lubricate your tool every time you use it. Check the current Grizzly catalog for availability of this unit. If you plan on installing a filter/lubricator/regulator unit in your compressed air system, always follow the connection instructions that come with the unit.



Exceeding the maximum permissible operating pressure may cause the stapler to explode, blowing metal fragments in all directions. To protect yourself from serious personal injury, DO NOT allow your air compressor to exceed the recommended pressure when connected to this stapler!

Safety Yoke Mechanism

A safety yoke mechanism (bump fire) on the nose of the stapler acts as a secondary safety device. When the trigger is pressed, the stapler will not fire until the safety yoke mechanism is depressed.

Before you use your stapler for the first time, check the safety yoke mechanism to ensure proper function. To do this:

- Make sure the stapler is disconnected from the air supply!
- 2. Make sure the magazine is empty and contains no staples.
- Make sure the trigger and the safety yoke mechanism move up and down without sticking.
- **4.** Connect the stapler to the air supply.
- 5. Without pressing the trigger, depress the safety yoke mechanism against a scrap piece of wood that is clean and free of any knots, staples, or other foreign objects. If the stapler does not fire, then the safety yoke mechanism is working correctly. If the stapler does fire when you do this, immediately disconnect the stapler from the air supply and call our customer service for help.

Similarly if the stapler fires when the trigger is pulled, without the safety yoke mechanism being depressed, then the stapler is not working properly.

If either of these two conditions develop after you have used your stapler for a period of time, check the lubrication of these mechanisms.

AWARNING

The safety yoke is a mechanical device that can fail. Never rely on the safety yoke mechanism as an excuse to point the stapler at yourself or any bystanders. Serious injury may occur.

OPERATION

Loading Stapler

To load your stapler:

- 1. Disconnect the air supply from the stapler!
- **2.** Push the magazine latch in the direction shown in **Figure 1**.

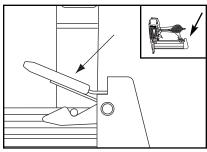


Figure 1. Releasing magazine latch.

- Pull back the magazine cover until it stops.
- 4. Point the stapler up and insert a stick of staples into the magazine as shown in Figure 2. Make sure that the pointed ends of the staples point in the same direction as the stapler nose piece.

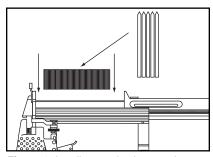


Figure 2. Loading staples into stapler.

Push the magazine cover forward until the magazine latch locks in place.

Depth Adjustment

- Rotate the depth adjustment wheel (shown in Figure 3) clockwise to increase the nail depth.
- 2. Rotate the finger wheel counter-clockwise to decrease the nail depth.

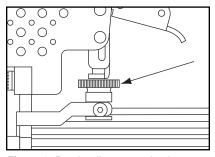


Figure 3. Depth adjustment wheel.

Operating Stapler

If you have not read the safety instructions in this manual, do not operate the stapler.

Before you operate your stapler, place one drop of the included oil into the quick connect fitting where the stapler connects to the air supply. Fire the EMPTY stapler 3-4 times before beginning, so oil does not come out onto the project during regular operation.

To operate your stapler:

- 1. Connect the air supply to the quick connect fitting.
- 2. Test the loaded stapler for proper penetration. Hold the stapler perpendicular to the surface of a piece of clean scrap wood that is thick enough for the length of staples you have loaded. Depress the safety yoke mechanism on your workpiece.
- 3. Before pressing the trigger, make sure your free hand is positioned out of the way of a potential path of a staple in case of deflection. (Deflection is caused when the staple changes its path, resulting in the staple puncturing the surface of the workpiece as shown in Figure 4.)

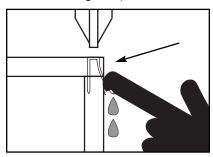


Figure 4. Example of staple deflection.

Besides damaging your workpiece, deflection can cause injury if your free hand is securing the workpiece in the location that the staple deflects.

4. Press the trigger. If the staple drove into the wood far enough, continue with your intended operations. If the staple either went too far or not far enough, then adjust the air pressure. More air pressure will make the staple go deeper and less air pressure will decrease the staple penetration.

Clearing Jammed Staples

The most frequent situation with any type of stapler is a staple jam. A jammed staple must be cleared before using the stapler again. The two places where a staple can get jammed are the magazine and the discharge area.



To clear a jammed staple from the magazine:

- Disconnect the stapler from the air supply!
- 2. Open the magazine cover and pull the magazine all the way back.
- Locate and remove the jammed staple with a pair of needle nose pliers. Close the magazine cover so it latches.

To clear a jammed staple from the discharge area:

- Disconnect the stapler from the air supply!
- **2.** Remove all of the staples from the magazine.
- The jammed staple should now be visible; remove it from the discharge area with needle nose pliers.
- Replace the staples. Push the magazine closed and snap the quick release latch back into operating position.

Oiling Stapler

Special oil has been included with your new Grizzly stapler to help maintain its useful life. Place one drop of oil in the stapler air inlet (as shown in **Figure 5**) before every use. Wipe off any excess oil near the stapler exhaust to avoid dust build-up. When the oil that was included with the stapler has been completely used, replace with Grizzly Model G2820 Pneumatic Tool Oil.

Another option to manual oiling would be to install a lubricator in your air compressor line. If your air compressor line already has a lubricator, then regular lubrication of your stapler will not be necessary. Just make sure there is always oil in the lubricator.

As mentioned before, the best option is to install a filter/lubricator/regulator unit such as the Grizzly Model H2333 in your air line.

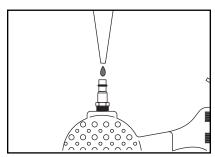


Figure 5. Lubricating stapler via air inlet.

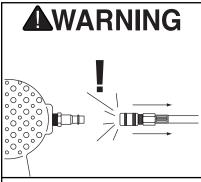
Cleaning Stapler

Use a good solvent to clean the nose assembly of the stapler. Always be sure that the stapler is dry before using it again.

Do not allow dust, chips, sand, etc. into the air connectors or into the body of the stapler; this may result in leaks and damage to the stapler and the air couplings.



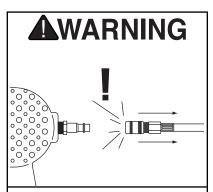
Never use use gasoline or other flammable liquids to clean this tool. Vapors in the tool may ignite, causing the tool to explode. Ignoring this warning may lead to serious personal injury or even death!



Always disconnect air from stapler whenever servicing! During maintenance, a stapler connected to air may fire accidentally, causing serious personal injury!

Replacing Pistons/O-Rings

If you use your stapler day in and day out, Grizzly offers repair pistons as cheap insurance against wasted down time and lost profits in the event that a piston or piston shaft becomes worn out. To replace a piston:



Always disconnect air from stapler whenever servicing! During maintenance, a stapler connected to air may fire accidentally, causing serious personal injury!

- Disconnect the stapler from the air supply!
- 2. Remove all staples from the magazine cartridge.
- 3. Remove the 4 cap screws from the stapler exhaust cap.
- **4.** Remove the exhaust cap as shown in **Figure 6**.
- The top of the piston should now be visible inside the cylinder, which is housed in the head of the stapler.
- **6.** Open the magazine.
- Watch the discharge area and push the top of the piston with your finger. You will see the piston shaft slide down the discharge area.

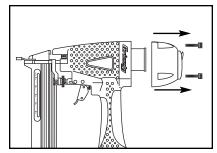
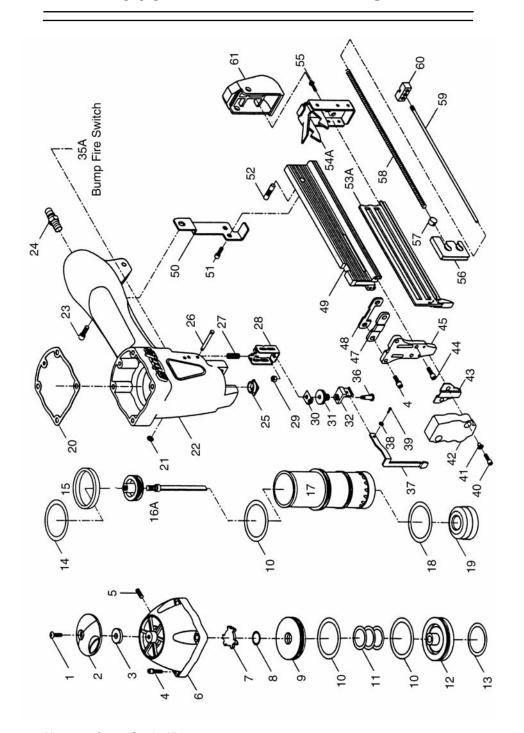


Figure 6. Removing stapler exhaust cap.

- 8. With a long flathead screwdriver or similarly shaped tool, push the piston shaft back inside the stapler until you can grip the piston head and remove it from the cylinder. (Be careful not to scratch the discharge area when pushing the piston shaft with the screwdriver.)
- Place a new O-ring on the new piston and apply a thin film of the stapler lubricating oil on the O-ring.
- 10. Insert the new piston in the cylinder. Make sure that the grooves on the piston shaft line up with those on the guide. The new piston should easily slide into the cylinder. Do not force the piston into the cylinder! If the piston is not easily inserted, double-check the alignment of the piston shaft with the grooves on the guide.
- After the piston is inserted correctly, close the magazine. Replace the rear cap assembly and tighten the 4 cap screws.
- For more assistance, or to install a complete O-ring set, refer to the appropriate breakdown diagram in the back of this manual.

H2909 PART BREAKDOWN



REF	PART #	DESCRIPTION
HEF	PARI#	DESCRIPTION

01	PH2909001	UM HD BOLT
02	PH2909002	CAP COVER
03	PH2909003	SEAL
04	PH2909004	CAP SCREW
05	PH2909005	SETSCREW
06	PH2909006	CAP
07	PH2909007	PISTON STOPPER
08	PH2909008	O-RING
09	PH2909009	COLLAR
10	PH2909010	O-RING
11	PH2909011	SPRING
12	PH2909012	PISTON HEAD VALVE
13	PH2909013	O-RING
14	PH2909014	O-RING
15	PH2909015	O-RING
16A	PH2909016A	PISTON ASSEMBLY
17	PH2909017	CYLINDER
18	PH2909018	O-RING
19	PH2909019	BUMPER
20	PH2909020	GASKET
21	PH2909021	O-RING
22	PH2909022	BODY
23	PH2909023	CAP SCREW
24	PH2909024	AIR PLUG
25	PH2909025	JOINT GUIDE
26	PH2909026	STEPPED PIN
27	PH2909027	SPRING
28	PH2909028	SAFETY LEVER
29	PH2909029	LOCK NUT

REF PART # DESCRIPTION

30	PH2909030	POSITIONING PLATE
31	PH2909031	ADJUSTMENT NUT
32	PH2909032	GUIDE PLATE
35A	PH2909035A	SWITCH
36	PH2909036	SET SHAFT
37	PH2909037	SAFETY LEVER
38	PH2909038	LOCK WASHER
39	PH2909039	CAP SCREW
40	PH2909040	CAP SCREW
41	PH2909041	SOCKET
42	PH2909042	NOSE COVER
43	PH2909043	NOSE COVER
44	PH2909044	CAP SCREW
45	PH2909045	NOSE
47	PH2909047	SET PLATE
48	PH2909048	SET PLATE
49	PH2909049	MAGAZINE
50	PH2909050	BRACKET
51	PH2909051	CAP SCREW
52	PH2909052	SHAFT
53A	PH2909053A	STAPLE GUIDE UNIT
54A	PH2909054A	END CORE
55	PH2909055	UM HD BOLT
56	PH2909056	PUSHER
57	PH2909057	SLIDE BLOCK
58	PH2909058	SPRING
59	PH2909059	ROD
60	PH2909060	SET BLOCK
61	PH2909061	TAIL COVER

TROUBLESHOOTING

PROBLEM	CAUSE	ACTION	
Air leaking at trigger valve area.	O-rings in trigger valve housing are damaged.	O-rings must be replaced operation of safety yoke must be checked.	
Air leaking between housing and hose.	Loose screws in housing. Damaged O-ring. Loose air fitting.	Tighten screws. Replace O-ring. Tighten air fitting.	
Air leaking between housing and cap assembly.	1. Damaged seal.	Replace damaged seals.	
Tool skips staples while discharging.	 Air leaks. Dirt in nose. Dirt or damage prevents staples from moving freely in magazine. Inadequate air flow to tool. Wom O-ring on piston or lack of lubrication. Damaged O-rings on trigger valve. Wom bumper. Cap seal leaking. 	Tighten screws and fittings. Clean nose. Clean magazine and inspect/repair damage. Check fitting, hose, compressor & air pressure. Replace piston O-ring. Lubricate. Replace trigger valve Orings. Replace bumper. Replace cap seal.	
Tool runs slowly or has a loss of power.	Stapler is not sufficiently lubricated. Broken spring in cap assembly. Exhaust port in cap is blocked.	Lubricate stapler. Replace spring. Clean or replace damaged internal parts.	
Fasteners frequently jam the stapler.	Staples are the wrong size. Staples are bent. Magazine or nose screws are loose. Driver or driver guide are worn or damaged.	Use correct staples. Use undamaged staples. Tighten magazine and nose screws. Replace worn or damaged parts.	
Stapler does not fire.	Staple is jammed in magazine or discharge area. Piston shaft is damaged. Air pressure too low.	Clear stapler magazine or discharge area. Replace piston shaft. Check/increase air pressure.	

WARRANTY AND RETURNS

Grizzly Industrial, Inc. warrants every product it sells for a period of 1 year to the original purchaser from the date of purchase. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs or alterations or lack of maintenance. This is Grizzly's sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall Grizzly's liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Grizzly shall be tried in the State of Washington, County of Whatcom.

We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special, or consequential damages arising from the use of our products.

To take advantage of this warranty, contact us by mail or phone and give us all the details. We will then issue you a "Return Authorization Number," which must be clearly posted on the outside as well as the inside of the carton. We will not accept any item back without this number. Proof of purchase must accompany the merchandise.

The manufacturers reserve the right to change specifications at any time because they constantly strive to achieve better quality equipment. We make every effort to ensure that our products meet high quality and durability standards and we hope you never need to use this warranty.

Please feel free to write or call us if you have any questions about the machine or the manual.

> Grizzly Industrial, Inc. 1203 Lycoming Mall Circle Muncy, PA 17756 Phone: (570) 546-9663

Fax: (800) 438-5901

F-Mail: techsupport@grizzly.com

Web Site: http://www.grizzly.com

Thank you again for your business and continued support. We hope to serve you again soon!

WARRANTY CARD

N	ame			
		State		
Ρŀ	none Number	E-Mail		FAX
M	odel #		Order #	
Th	e following informatio	n is given on a voluntary	basis. It will be used	for marketing purposes to help
us	develop better produc	cts and services. Of cours	e, all information is s	trictly confidential.
1.	How did you learn about		How many of Grizzly?	the machines checked above are
	Advertisement Catalog	Friend Card Deck	GHZZIY!	
	World Wide Web	oara Book	10. Which portable/	hand held power tools do you own?
	Other		Check all that a	pply.
			Belt Sander	Orbital Sander
2.	What is your annual ho	usehold income?	Biscuit Join	erPalm Sander
	\$20,000-\$29,999	\$60,000-\$69,999	Circular Sav	vPortable Planer
	\$30,000-\$39,999	\$70,000-\$79,999	Detail Sand	erSaber Saw
	\$40,000-\$49,999	\$80,000-\$89,999	Drill/Driver Miter Saw	Reciprocating Saw Router
	\$50,000-\$59,999	\$90,000 +	Other	
3.	What is your age group		d d \A/l 4	-/
	20-29	50-59	Industrial to car	s/supplies would you like Grizzly
	30-39	60-69	illuusillal to cal	ıy:
	40-49	70 +		
4.	How long have you bee	en a woodworker?		
	0 - 2 Years 2 - 8 Years	8 - 20 Years		
	2 - 8 Years	20+ Years	12 What new acc	cessories would you like Grizzly
_		1 1: 1:11 0	Industrial to car	
Э.	How would you rank yo		madolilar to oar	.,,.
	Simple Intermediate	Advanced Master Craftsman		
6.		orking tools do you own?		
	Check all that apply.	D 10	13 What other con	npanies do you purchase your tools
	Air Compressor Band Saw	Panel Saw Planer	and supplies fro	
	Band Saw Drill Press	Planer Power Feeder		
	Drum Sander	Radial Arm Saw		
	Dust Collector	Shaper		
	Spindle Sander	Jointer		
	Table Saw	Lathe		ur purchase represents good value?
	Mortiser	Wide Belt Sander	Yes	No
	Horiz.Boring Machin	ne	15 Would you room	mmend Grizzly to a friend?
	Vacuum Veneer Pro			No
	Oulei			
7.		odworking machines are		w us to use your name as a refer- customers in your area? Note: We
	Grizzly?	_	,	es more than three times.
0	Which banchton tools	do you own? Chook all	Yes	No
э.	that apply.	do you own? Check all		
	1"x42" Belt Sander	6" - 8" Grinder	17.Comments:	
	5" - 8" Drill Press	Mini Lathe		
	8" Table Saw	8" - 10" Bandsaw		
	Scroll Saw	Disc/Belt Sander		
	Spindle/Belt Sande	rMini Jointer		
	10"-12"Thickness P	laner		
	Other			

Send a Grizzly Catalog to a friend:

Name		
Street		
City	State	Zip

FOLD ALONG DOTTED LINE



Place Stamp Here



GRIZZLY INDUSTRIAL, INC. P.O. BOX 2069 BELLINGHAM, WA 98227-2069

